Kevin Xiao
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EDUCATION

Hamilton College **Clinton, NY** Aug. 2012 – present

- Bachelor's degree in Computer Science (expected in May 2015).
- Relevant courses: Discrete Math, Applied Theory, Programming Challenges, Principles of Programming Languages, Computer Organization and Assembly Language, Computer Architecture, Compilers, Algorithms, Artificial Intelligence, Database Theory and Programming, Introduction to Digital Humanities, Senior Seminar.
- Main programming languages: C++, Python, Java, SQL

University of Washington **Seattle, WA** Sep. 2010 – Jun. 2012

- Relevant courses: Introduction to Programming, Calculus, Mechanical Physics, General Chemistry, Digital Art

EXPERIENCE

Assistant Software Developer at Hamilton's Digital Humanities initiative **Clinton, NY** Mar. 2014 – present

- Currently developing a virtual mock-up of the Soweto Uprising for *Dangerous Embodiments* (full abstract available online), a project that aims to recreate historical events realistically in 3D environments so that responses elicited from immersing oneself in different character avatars within these environments may be reviewed from a humanities perspective.
- Modeled the town of Soweto's buildings in Blender, based on photographs.
- Produced in Unity, an early prototype of the 3D environment for a digital humanities conference with the aforementioned models.
- Near-future responsibilities will include constructing and applying animations for character sculptures.

Programming Intern at Hi-key Technology Inc. **Beijing, China** Jul. 2013

- Assisted with English/Chinese technical terminology translation and the programming of minor scripts for a database commissioned by Flowmaster, a specialty performance aftermarket exhaust parts manufacturer.

Select programming experiences at Hamilton College

- Developed a virtual musical instrument (Assembly language for Intel 8086 chip), capable of recording and playing back user input, playable with DOSBox.
- Worked with a partner to parallelize a stock market simulation program (in C++) for high-performance computing (with MPICH). The program's runtime was reduced from 1 week to about 2 hours on the college's supercomputer.

ADDITIONAL DETAILS

Languages: English and Chinese. **Citizenship:** United States, Hong Kong Permanent Resident.

- Diverse liberal arts education, covering many subjects outside those already listed: history, politics, religion, art, economics, biology, and music.
- Classically trained in flute, piano, and drum-set.
- Highly experienced video gamer – skilled at identifying winning strategies across multiple genres/rulesets, and regularly achieves fame/infamy in multi-player.

REFERENCES

- Dr. Angel David Nieves, Associate Professor & Co-Director, Digital Humanities Initiative (DHi), Hamilton College, 202.641.1473 (cell), anieves@hamilton.edu
- Gregory Lord, DHi Lead Designer & Software Engineer, Digital Humanities Initiative, Hamilton College, 240.317.9369, glord@hamilton.edu
- Rick Decker, Professor of Computer Science, Hamilton College, 315.859.4785, rdecker@hamilton.edu